

Electrical Accessories

Repair Instructions

Front Floor Console Cup Holder Illumination Lamp Package Installation

Installation Instructions Part Number

20971889

Cupholder Lighting Kit Contents

Item No.	Description
1	Lighting ECU
2	Cupholder LED's with Pigtail Harness
3	Switch with Pigtail Harness
4	8 - Way Connector (shipped loose)
5	Power Harness
6	Installation and Hardware Kit
7	Installation Instructions
8	Owner's Manual

Footwell Lighting Kit Contents

Item No.	Description
1	Footwell LED's with Pigtail Wiring Harness
2	Footwell Specific Hardware Kit

Recommended Tools

- Plastic Trim Removal Tool
- Drill with 5/16" and 15/32" drill bits
- ¼ Drive Ratchet with 7 mm Socket
- Center Punch/Awl
- T 20 Torx bit
- Phillips Screwdriver
- J 42059 Cigar Lighter Socket Remover

Installation Sequence

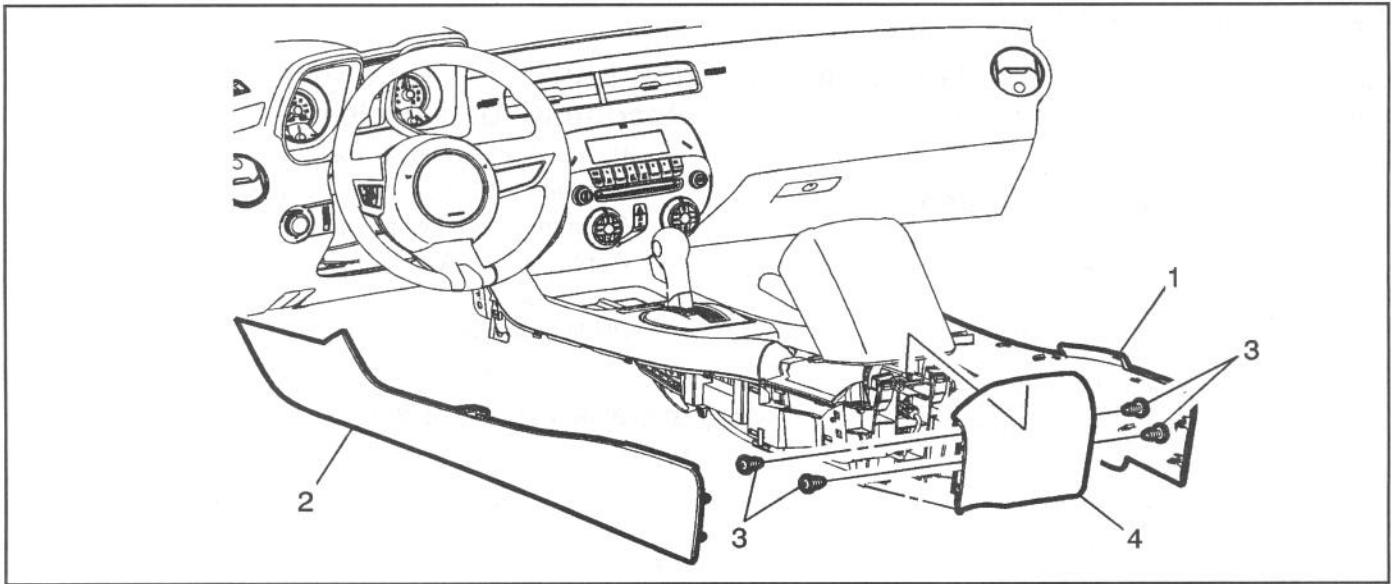
Note:

Please review the entire procedure before trying to perform it.

Note:

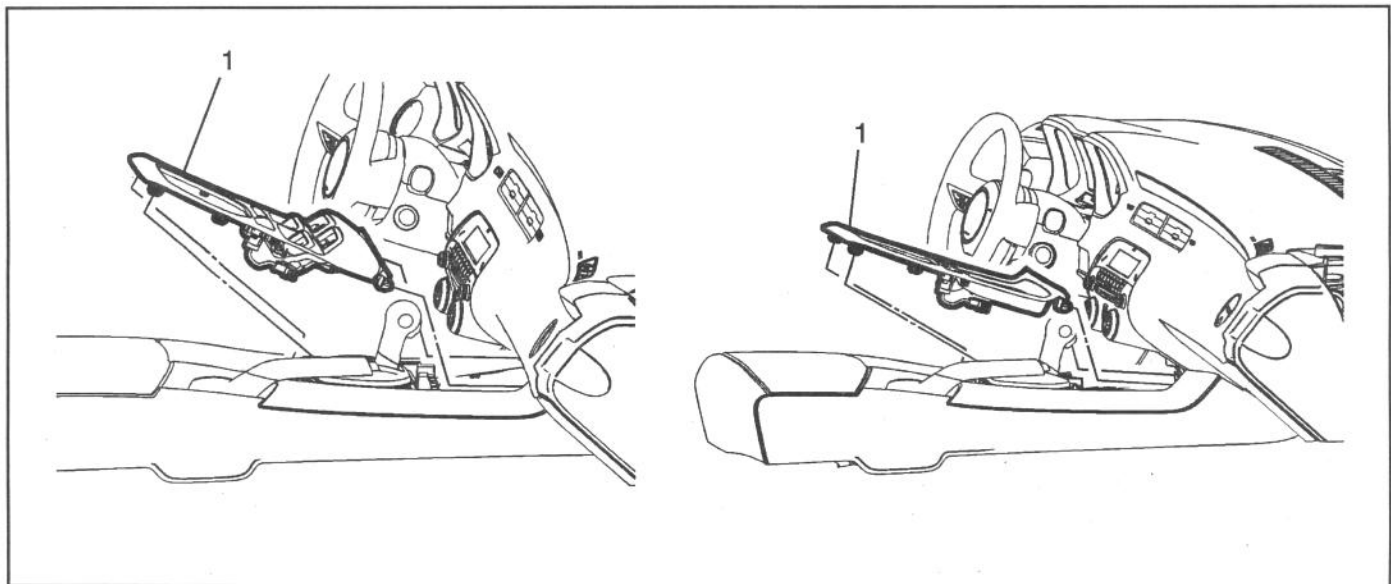
After safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances, the suggested sequence is written for one associate to install and in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality.

Remove Front Floor Console and Components



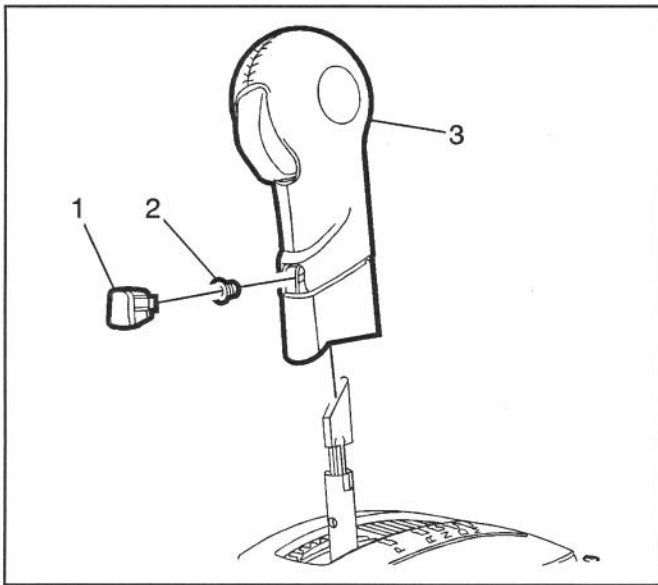
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1. Using a flat bladed plastic trim tool, release the retainer clips securing the left (2) and right (1) console side covers to the front floor console assembly.
2. Remove the front floor console rear cover fasteners (3).
3. Remove the front floor console rear cover (4).



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4. Apply the parking brake.
5. Move the transmission shift assembly to the most rearward position possible.
6. Using a flat bladed plastic trim tool, release the retainer tabs securing the front floor console cover (1) to the console assembly.
7. Disconnect electrical connections.

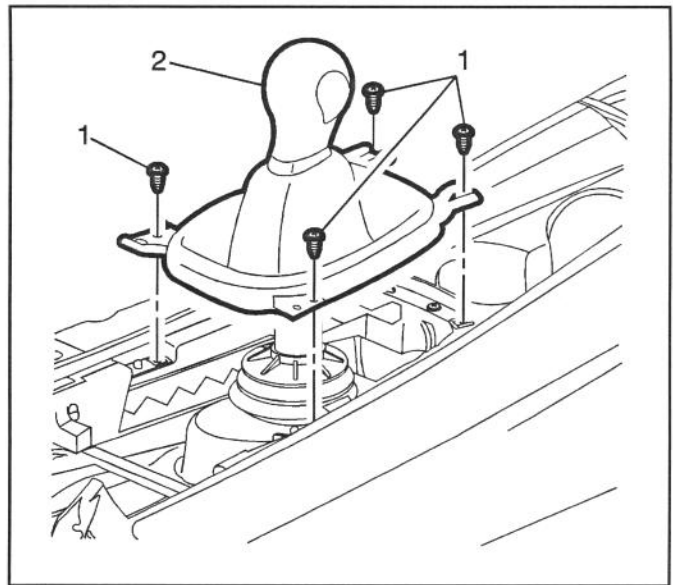


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Note:

Steps 8, 9 and 10 are for vehicles equipped with automatic transmission only.

8. Using a flat bladed plastic trim tool, remove the automatic transmission control lever knob cover (1).
9. Remove the automatic transmission control lever knob fastener (2).
10. Pull up on the automatic transmission control lever knob (3) to remove.



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Note:

Steps 11 and 12 are for vehicles equipped with manual transmission only.

11. Remove the manual transmission control lever knob fasteners (1)

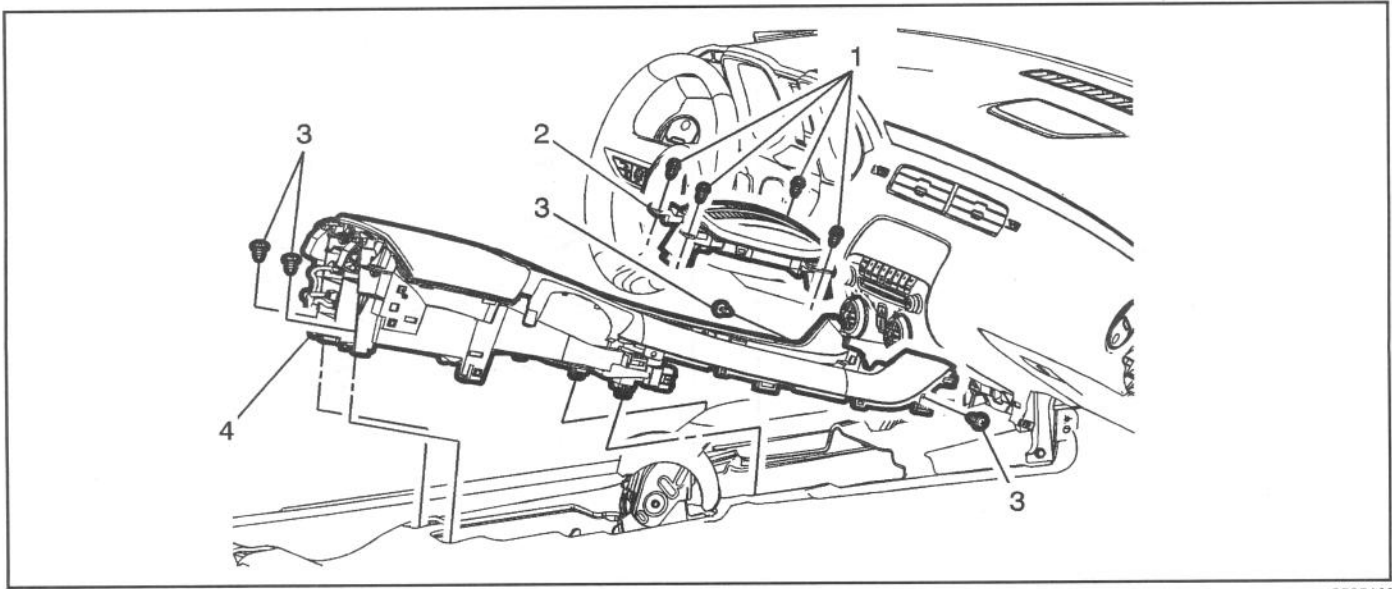
Caution:

Use the correct fastener in the correct location. Replacement fasteners must be the correct part number for that application. Fasteners requiring replacement or fasteners requiring the use of thread locking compound or sealant are identified in the service procedure. Do not use paints, lubricants, or corrosion inhibitors on fasteners or fastener joint surfaces unless specified. These coatings affect fastener torque and joint clamping force and may damage the fastener. Use the correct tightening sequence and specifications when installing fasteners in order to avoid damage to parts and systems.

Tighten

Upon reassembly, tighten the manual transmission control lever knob fasteners (1) to 9 N•m (80 lb in).

12. Firmly pull upward on knob (2) until it is released from the control assembly.

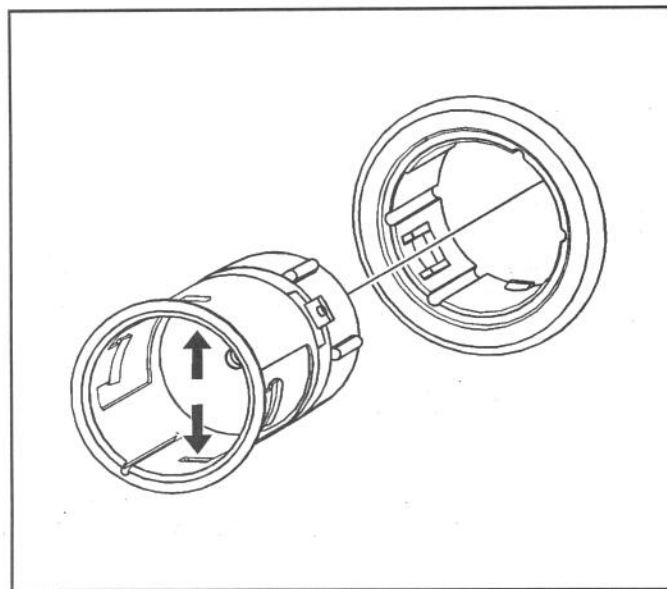


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Note:

Steps 13, and 14 are for vehicles equipped with automatic transmission only.

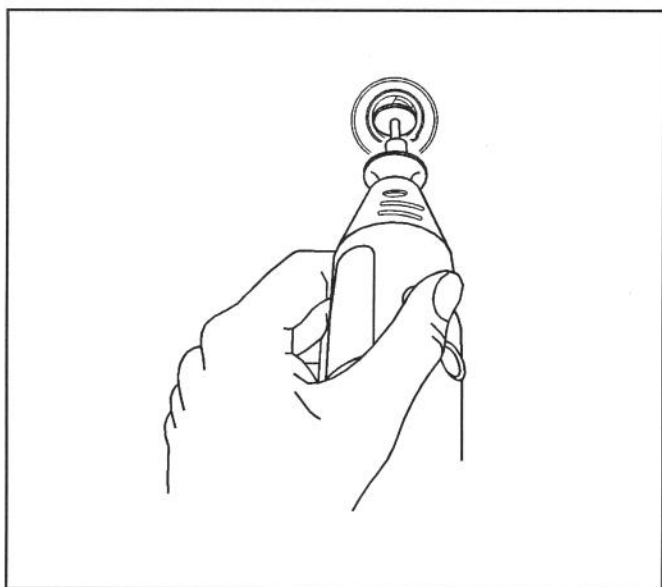
13. Remove the fasteners (1) from the automatic transmission control lever housing bezel.
14. Remove the automatic transmission control lever housing bezel (2) and disconnect electrical connections.
15. Remove the front floor console fasteners (3).
16. Disconnect console to I/P harness in-line connector.
17. Remove front floor console assembly (4).



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18. Remove the receptacle:

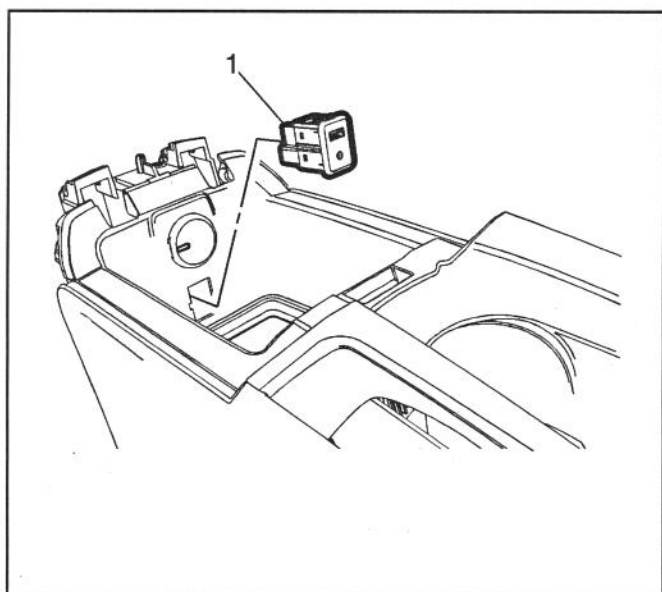
- 18.1. Look into the receptacle. There are two 3 mm (0.11 in) tab windows 12 mm (0.47 in) from the front of the receptacle. Using the J 42059 Cigar Lighter Socket Remover, push the plastic latches from these tab windows and the receptacle can be pulled straight out.
- 18.2. Place one side of the "T" portion of the J 42059 Cigar Lighter Socket Remover into the tab window. The J 42059 Cigar Lighter Socket Remover will not fit straight into the receptacle. Angle the J 42059 Cigar Lighter Socket Remover slightly for insertion into the receptacle.
- 18.3. Insert the other side of the "T" into the opposite tab window.
You must move the J 42059 Cigar Lighter Socket Remover handle toward horizontal to engage the other tab window.
- 18.4. Use the J 42059 Cigar Lighter Socket Remover to pull the receptacle straight out.



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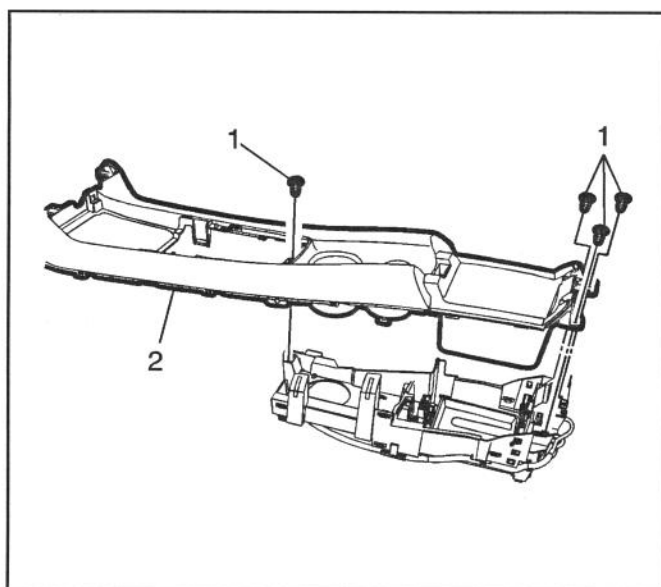
19. If the J 42059 Cigar Lighter Socket Remover tool fails to release the lighter socket from the retainer, perform the following alternate method:

- 19.1. Insert a small grinding tool with a cutoff wheel into the socket.
- 19.2. Remove the plastic latches in the 3 mm (0.11 in) square windows.
- 19.3. Use the J 42059 Cigar Lighter Socket Remover as directed above to remove the socket.



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20. Depress the tabs and remove the audio disc player/USB receptacle (1).
21. Disconnect the electrical connector.



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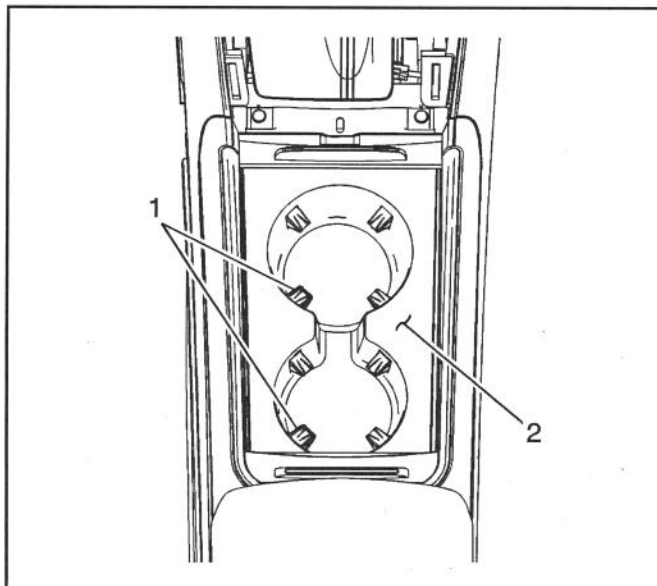
22. Remove the front floor console fasteners (1).

Note:

After the fasteners are removed, gently pull the front floor console upper trim to unsnap it from the lower console structure.

23. Remove front floor console upper trim (2).

Install Cupholder Lamps

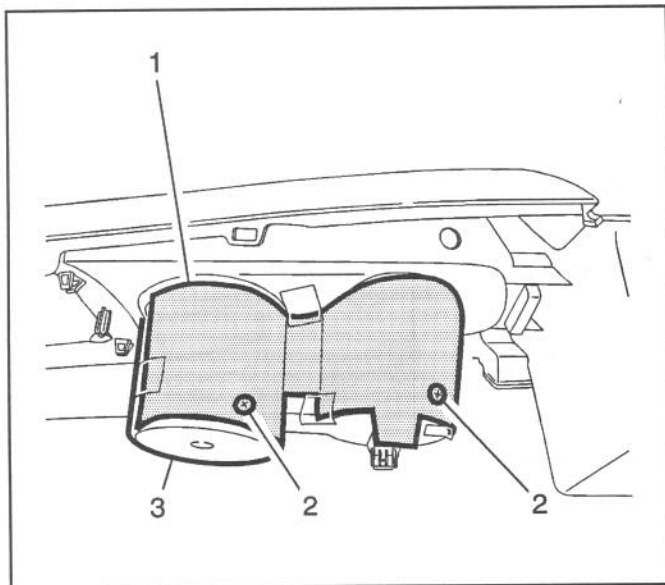


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Note:

Place the Front Floor Console Lower Trim Panel on a clean bench surface, laying on its right side.

1. One LED will be mounted in the side-wall of both cups and will be located approximately in the eight o'clock position (1) of each cup

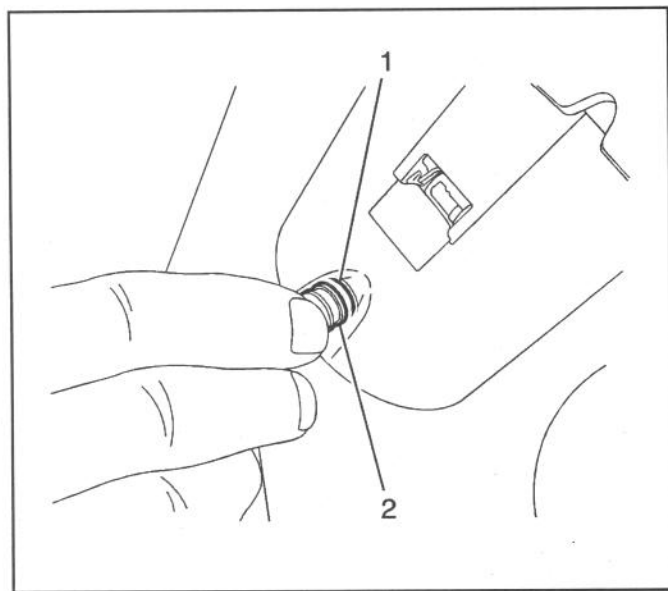


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2. Tape the cup LED template (1) to the outer surface of the cupholders (3) as shown.
3. Drill pilot holes (2) using a 1/8" drill bit. Drill final holes using a 5/16" drill bit.

Note:

Use caution not to oversize the holes.



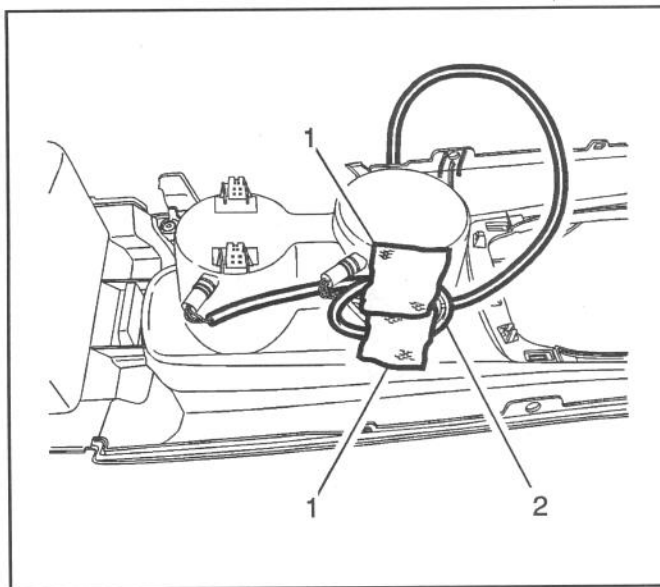
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4. From inside of cupholder, insert a lens (2) through the drilled holes.

Note:

Leave tape adhesive dot on lens.

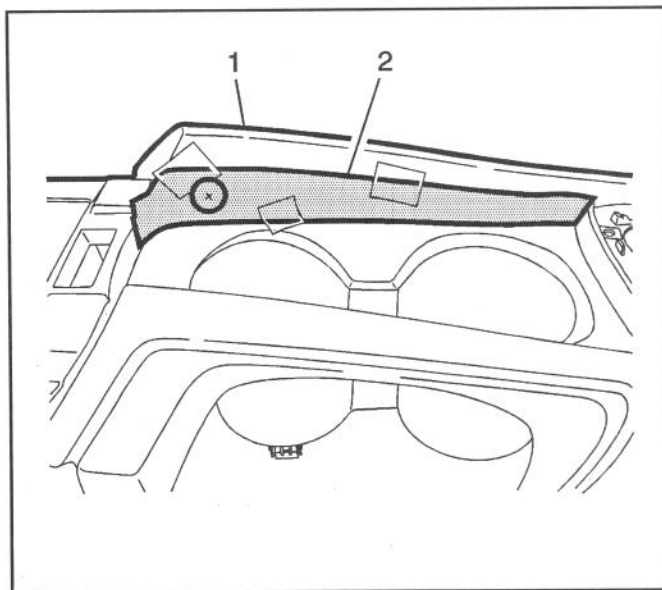
5. Place serrated washer (1) to outside of cupholder over lens body.
6. From the outside of the cupholder, install the LED's onto the lenses. Turn the LED while holding the lens from the inside. LED's should firmly seat to the cupholder.



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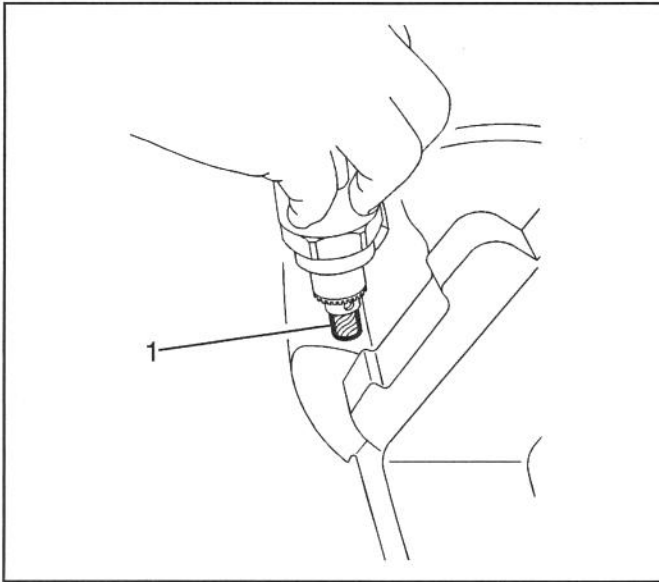
7. Use adhesive pads (1) to secure the wiring harness (2) to the outside of cupholder.

Install Switch



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1. Tape the template (2) to the console surface (1) as shown.

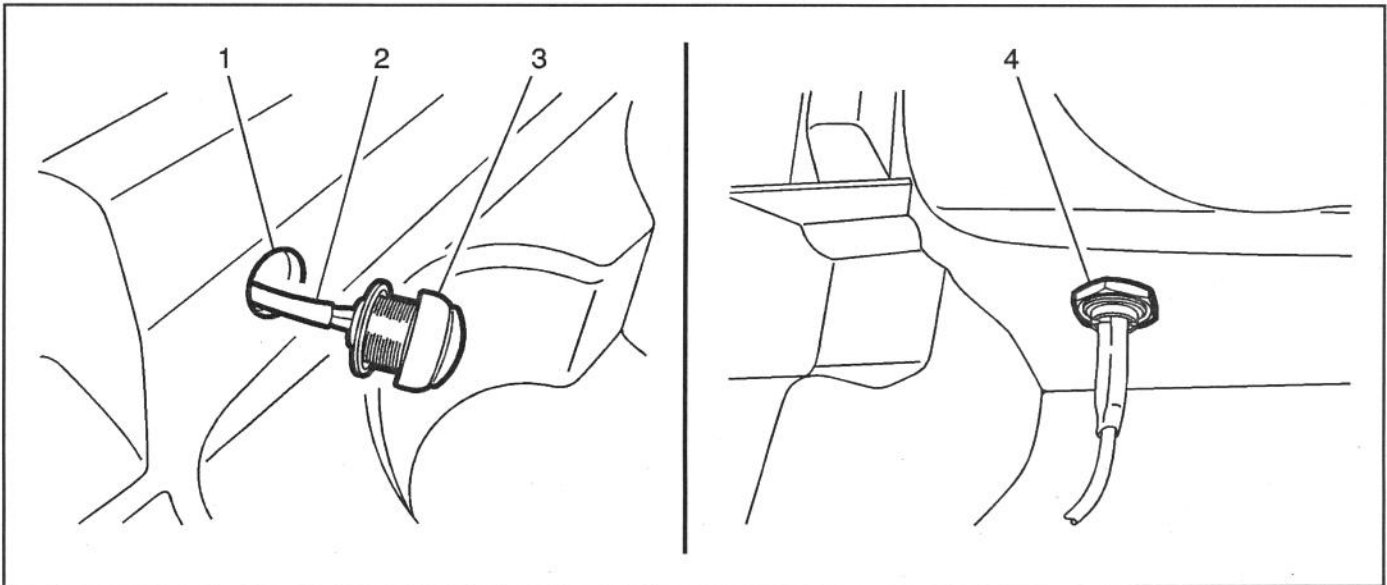


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2. Drill pilot hole using a 1/8" drill bit. Drill a final hole using a (15/32") drill bit (1).

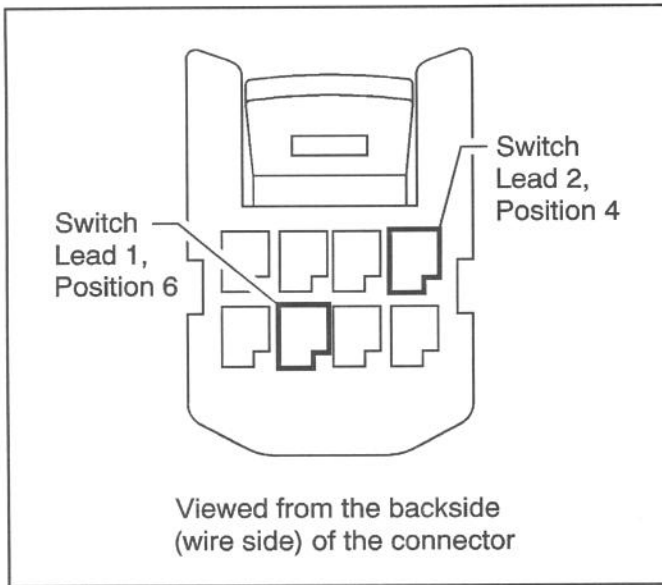
Note:

Use caution not to oversize the holes.



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3. With the accessory switch in hand, remove the nut from the switch and wiring pigtail, keep gasket in place on switch. Insert the switch wiring (2) and switch (3) through the hole (1). Attach nut (4) to the backside of switch and securely tighten the switch to the trim panel. Use wrench to snug the nut.

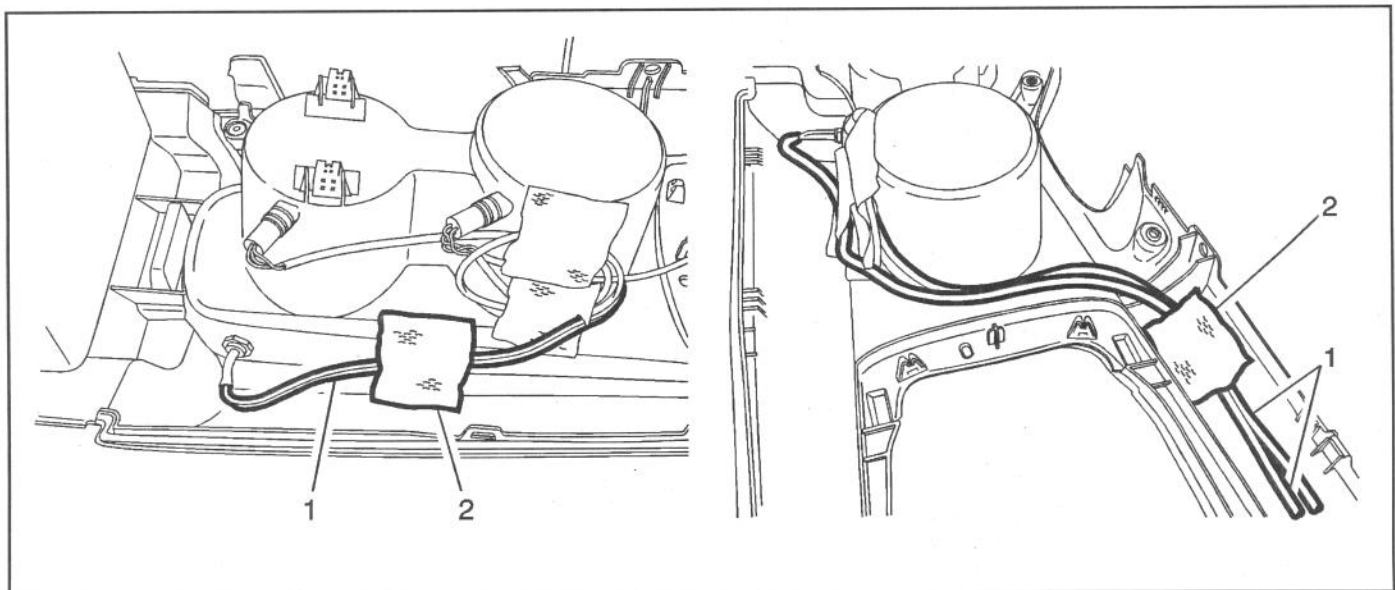


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4. Insert bare terminals on ends of switch harness into cavities 4 and 6 of the WHITE 8-pin spare connector included in the switch package. Press down on the TPA on top of the connector body to lock the terminals into the connector. Refer to connector cavity numbers as shown for proper terminal location.

Note:

Either WHITE wire can be inserted into either cavity.



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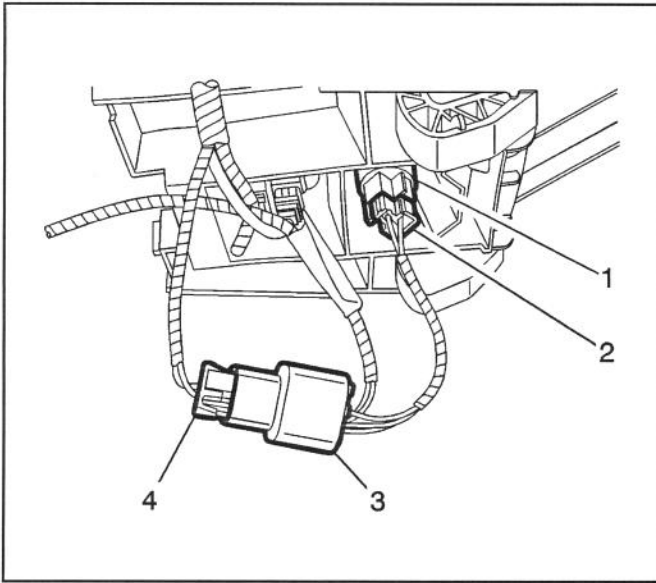
5. Route the switch harness and cupholder LED harnesses (1) around the front of the cups then along inside surface of console and secure using adhesive pads (2).

Note:

Properly route the harness to eliminate pinching/chaffed wires when reassembling console.

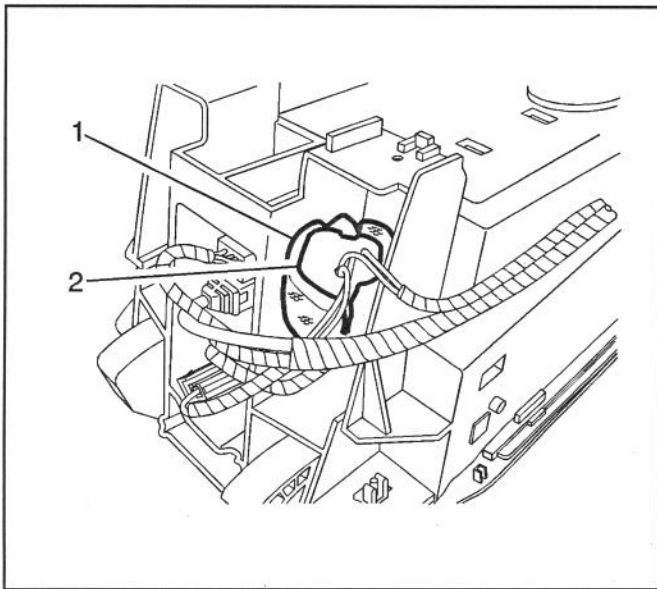
6. Reassemble the front floor console trim panel to the lower console.

Install Power Harness



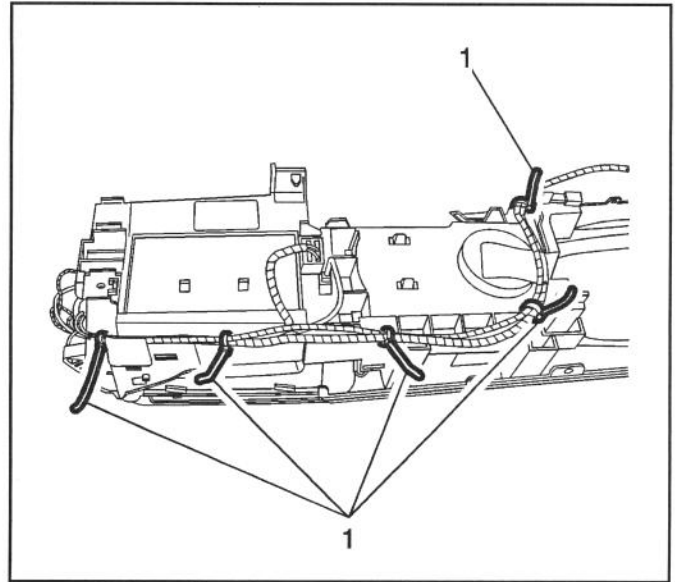
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1. Connect the power harness connector (2) to the auxiliary power outlet (1).
2. Connect the power harness connector (3) to the auxiliary power outlet harness connector (4).



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3. Using two foam pads (1), completely wrap around the auxiliary power harness in-line connection (2) and place connector in "pocket" in rear of console.



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4. Secure the accessory power harness to the existing console harness using cable ties (1).
5. Gather cupholder harness, switch harness, and power harness together and continue routing alongside and cable tie to the existing console harness.
6. Reinstall console assembly to the vehicle.

Note:

Do not install console side trim panels or console shifter trim plate at this stage.

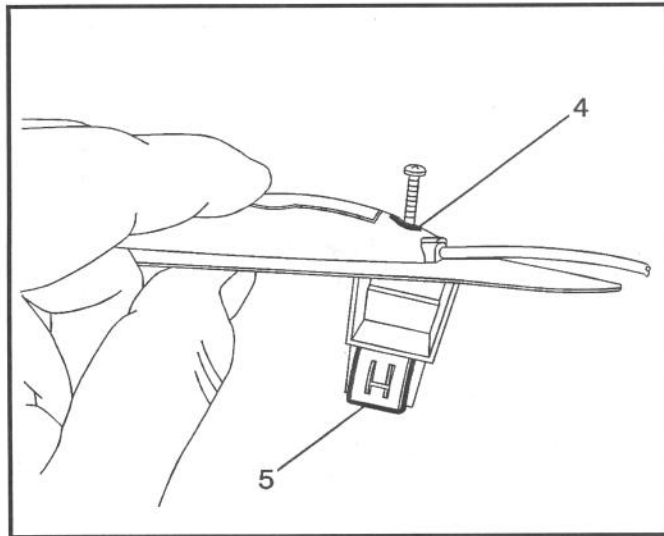
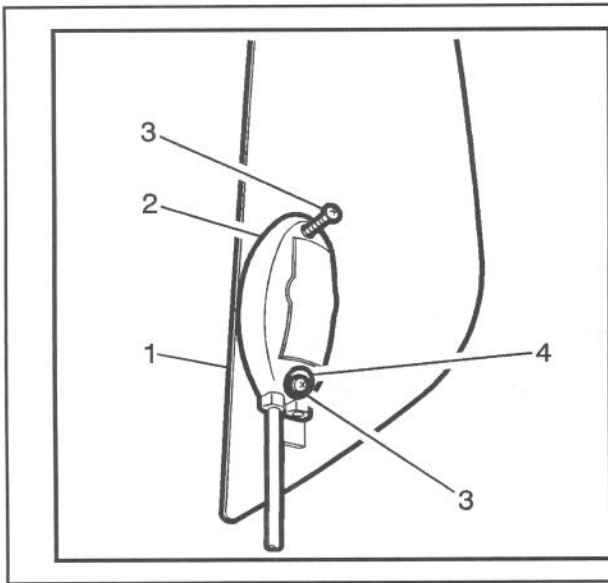
Skip to "Install Lighting Control Module" Procedure if installing Cupholder Lighting Kit only

Installation of Footwell Lighting

1. Place the left side console trim panel on a bench. Clean area (shown in picture below) using alcohol and a clean cloth.
2. Inspect footwell LED's and wiring.

Note:

There are two "illuminators" – One with a single wire and one with two wires connected. Holding the "single wire" illuminator, remove the tape liner from the back of the illuminator.



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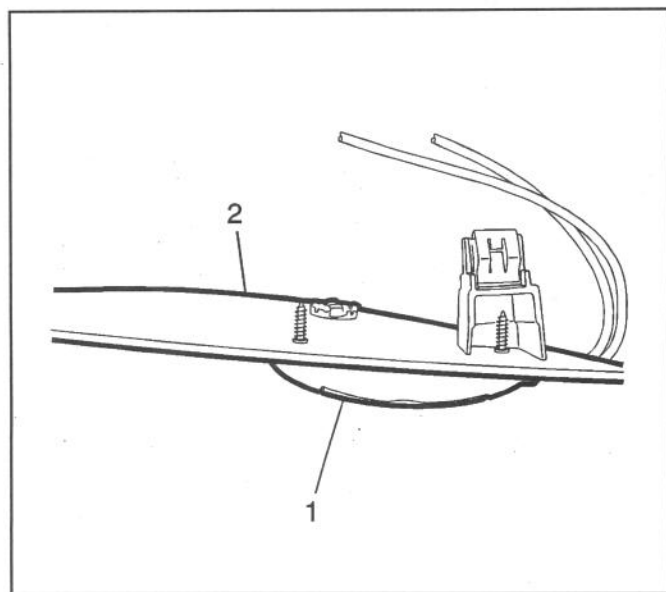
3. With the wires pointing forward in vehicle, align the top edge of illuminator (2) flush with top edge of console trim panel (1) and the forward hole (4) should align with the middle of the trim clip (5).
4. Firmly press the illuminator to the panel.

Note:

Do not overtighten screws.

Important: Finish securing the illuminator to the panel using the two self-tapping screws (3).

5. Partially install the left side trim panel to the console. Route the harness and second illuminator under the IP toward the right front console area.
6. Lay the right side console trim panel in the vehicle passenger side with leading edge near vehicle floor. Support the back of the trim panel.



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7. Mount the second illuminator (1) to the right side trim panel (2) using the same procedure as the left side.

Note:

Ensure illuminator wires point forward in vehicle. Do not install trim panel at this stage.

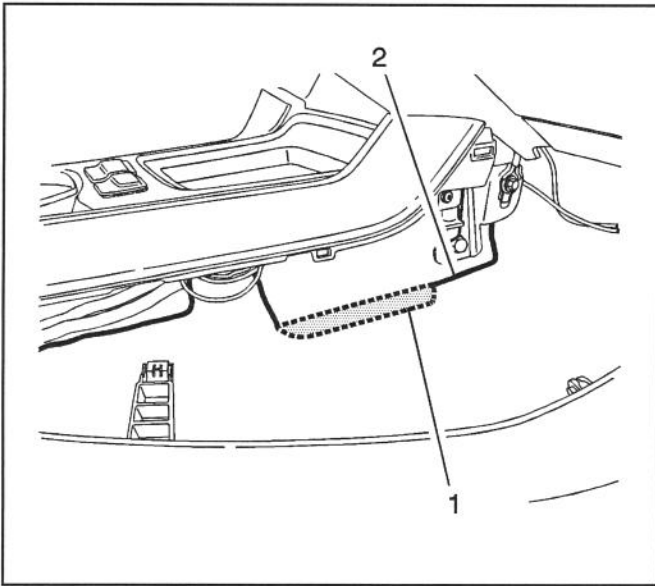
Install Lighting Control Module

1. Temporarily connect all connectors to the lighting control module to verify system functionality.
 - Power/ground harness
 - Cupholder lamp harness
 - Switch harness
 - Footwell lamp harness (if installed)
2. Connect negative battery cable and place ignition on (engine off) position. Test the system functionality before mounting the control module.

Note:

Refer to owner's manual card.

3. Finish routing the harnesses toward the right side of the center console area as shown in the following pictures.

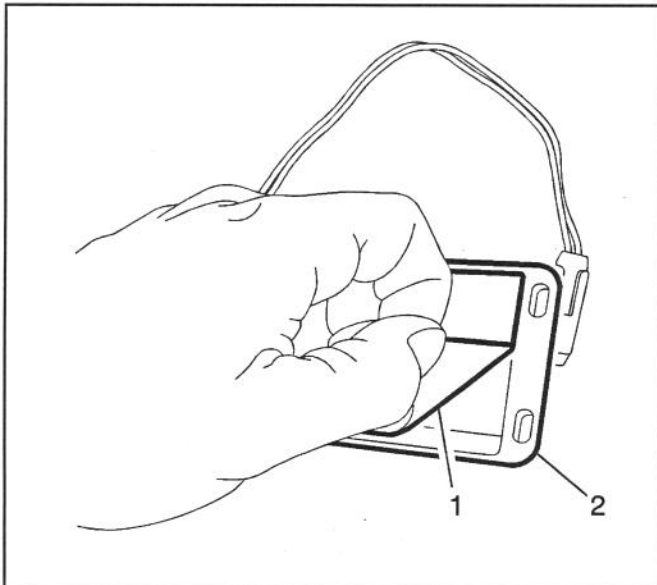


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4. Cut approximately 13mm (½") of padding material (1) from the backside of the carpet (2) as shown. Do not cut the carpet.
5. Inspect and clean the floor sheet metal surface in the area shown using a clean cloth and alcohol.

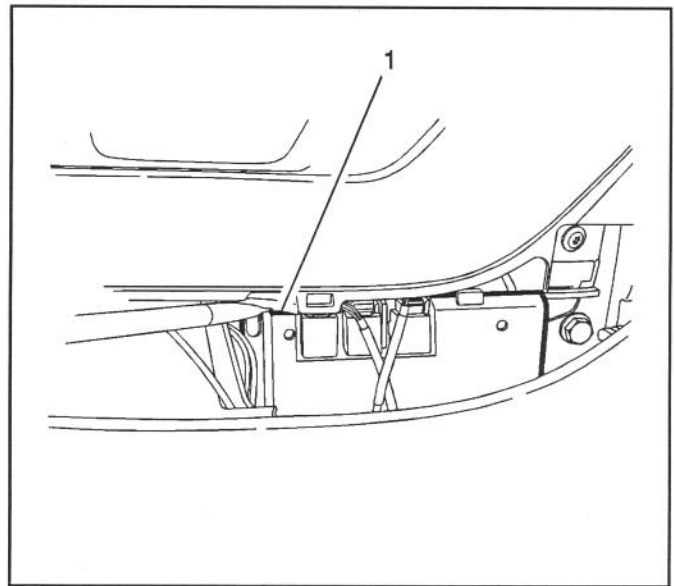
Note:

The module will be mounted to the body sheet metal.



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6. Remove adhesive liner (1) from the control module (2).



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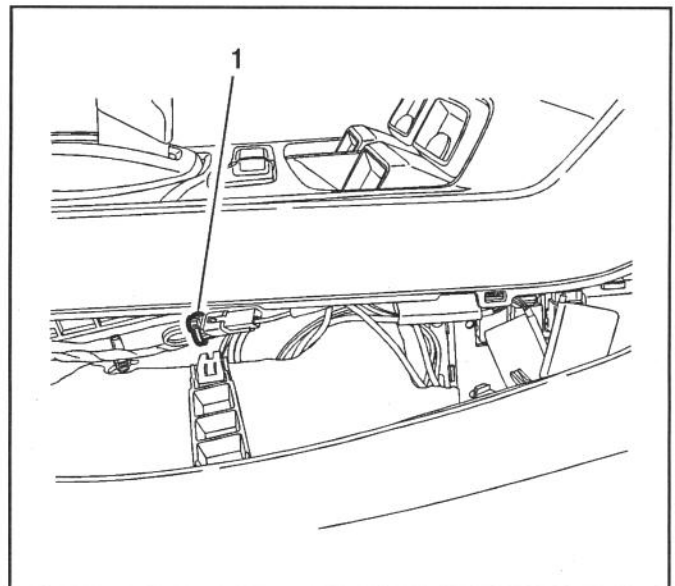
7. Carefully position the control module (1) into position with connectors facing up.

Note:

Mount the module (1) so the connectors are slightly under the console surface as shown and align the 4-way (WHITE) connector with the trim slot on the upper console trim panel.

8. Firmly press the module (1) onto the metal surface.

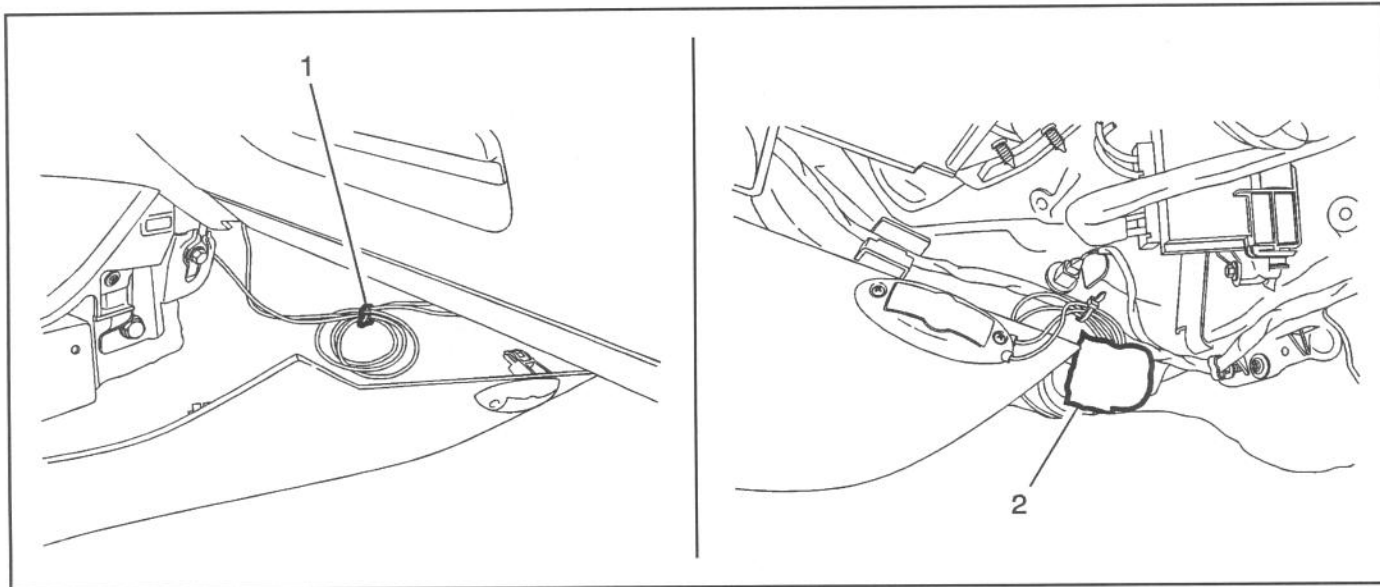
Reassemble Vehicle



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1. Gather the extra power/ground, cupholder and switch wiring harness lengths together and secure with cable ties (1) to existing console harness directly behind the lighting control module.

Important: Secure the power/ground harness 2-way connector properly to prevent rattles.



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2. Gather the extra footwell illuminator harness together, coiling wires (1) and securing under the center of the vehicle instrument panel as shown. Use foam pad(s) (2) to properly secure harness to the underside of the HVAC case.

3. Reinstall the remaining trim panels to the vehicle.
4. Supply the Owner's Manual insert to the customer.

CAMARO
INTERIOR ILLUMINATION
INSTALLATION TEMPLATES
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